Contents to volume 304

Review Letter

α-Amylases and approaches leading to their enhanced stability (FEBS 11085) *Š. Janeček, Š. Baláž* 1

Hypothesis

On the catalytic mechanism of *Eco*RI and *Eco*RV: A detailed proposal based on biochemical results, structural data and molecular modelling* (FEBS 11100) *A. Jeltsch, J. Alves, G. Maass, A. Pingoud* 4

Research Letters

Relationship of neural cell adhesion molecules (N-CAMs) with adenylate cyclase (FEBS 11101) *V.M. Lipkin, E.A. Surina, G.V. Petukhova, V.M. Petrov, S.F. Mirzoeva, T.V. Rakitina* 9

HSP70-related 65 kDa protein of beet yellows closterovirus is a microtubule-binding protein (FEBS 11111) *A.V. Karasev, A.S. Kashina, V.I. Gelfand, V.V. Dolja* 12

Conservation analysis and structure prediction of the SH2 family of phosphotyrosine binding domains (FEBS 11086) *R.B. Russell, J. Breed, G.J. Barton* 15

D-Glyceraldehyde-3-phosphate dehydrogenase purified from rabbit muscle contains phosphotyrosine (FEBS 11112) *E.A. Sergienko, A.I. Kharitonenkov, T.V. Bulargina, V.V. Muronetz, N.K. Nagradova* 21

Membrane-bound apolipoprotein B is exposed at the cytosolic surface of liver microsomes (FEBS 11113) *J. Wilkinson, J.A. Higgins, P.H.E. Groot, E. Gherardi, D.E. Bowyer* 24

Characterization of myocardial extracellular ATP receptors by photoaffinity labelling and functional assays (FEBS 11114) *B. Giannattasio, K. Powers, A. Scarpa* 27

Correlation between local cell membrane displacements and filterability of human red blood cells (FEBS 11115) *S. Tuvia, S. Levin, R. Korenstein* 32

Polyamines enhance calcium mobilization in fMet-Leu-Phe-stimulated phagocytes (FEBS 11116) *J.D. Walters, D.M. Sorboro, K.J. Chapman* 37

A modified Kex2 enzyme retained in the endoplasmic reticulum prevents disulfide-linked dimerisation of recombinant human insulin-like growth factor-1 secreted from yeast (FEBS 11118) *B. Chaudhuri, C. Stephan* 41

Identification of reactive tyrosine residues in cysteine-reactive dehydrogenases: Differences between liver sorbitol, liver alcohol and *Drosophila* alcohol dehydrogenases (FEBS 11119) *V. Prozorovski, M. Krook, S. Atrian, R. Gonzàlez-Duarte, H. Jörnvall* 46

Enzymatic activity of adenylate cyclase toxin from *Bordetella pertussis* is not required for hemolysis (FEBS 11122) *I.E. Ehrmann, A.A. Weiss, M.S. Goodwin, M.C. Gray, E. Barry, E.L. Hewlett* 51

Two-way cleavage of β-amyloid protein precursor by multicatalytic proteinase (FEBS 11123) *S.-i. Kojima, M. Omori* 57

Extracellular 2-chloroadenosine and ATP stimulate volume-sensitive Cl^- current and calcium mobilization in human tracheal 9HTEo− cells (FEBS 11120) *L.J.V. Galietta, A. Rasola, M. Rugolo, M. Zottini, T. Mastrocola, D.C. Gruenert, G. Romeo* 61

Detection of a new mutant α-1-antichymotrypsin in patients with occlusive-cerebrovascular disease (FEBS 11124) *M. Tsuda, Y. Sei, M. Yamamura, M. Yamamoto, Y. Shinohara* 66

Group II phospholipase A_2 induced by interleukin-1β in cultured rat gingival fibroblasts (FEBS 11126) *H. Shinohara, Y. Amabe, T. Komatsubara, H. Tojo, M. Okamoto, Y. Wakano, H. Ishida* 69

Exon–intron organization of the *Arabidopsis thaliana* protein kinase genes *CDC2a* and *CDC2b** (FEBS 11140) *Y. Imajuku, T. Hirayama, H. Endoh, A. Oka* 73

Conversion of 5,6-dihydroxyeicosatetraenoic acids: A novel pathway for lipoxin formation by human platelets (FEBS 11127) *S. Tornhamre, A. Gigou, C. Edenius, J.-P. Lellouche, J.Å. Lindgren* 78

Molecular cloning of the cDNAs coding for the two subunits of soluble guanylyl cyclase from human brain (FEBS 11135) *G. Giuili, U. Scholl, F. Bulle, G. Guellaën* 83

Involvement of separate domains of the cellulosomal protein S1 of *Clostridium thermocellum* in binding to cellulose and in anchoring of catalytic subunits to the cellulosome (FEBS 11137) *S. Salamitou, K. Tokatlidis, P. Béguin, J.-P. Aubert* 89

Transcription efficiency of human apolipoprotein A-I promoter varies with naturally occurring A to G transition (FEBS 11128) *R. Tuteja, N. Tuteja, C. Melo, G. Casari, F.E. Baralle* 98

Hypothesis

Coordinate regulation of murein peptidase activity and AmpC β-lactamase synthesis in *Escherichia coli* (FEBS 11125) *R.E. Bishop, J.H. Weiner* 103

Research Letters

The inhibitors thapsigargin and 2,5-di(*tert*-butyl)-1,4-benzohydroquinone favour the E2 form of the Ca^{2+},Mg^{2+}-ATPase (FEBS 11117) *M. Wictome, F. Michelangeli, A.G. Lee, J.M. East* 109

Melanocyte stimulating hormone activation of tyrosinase in B16 mouse melanoma cells: Evidence for a differential induction of two distinct isoenzymes (FEBS 11129) *P. Valverde, J.C. García-Borrón, J.H. Martínez-Liarte, F. Solano, J.A. Lozano* 114

Characterisation of a chloroplast-encoded *secY* homologue and *atpH* from a chromophytic alga: Evidence for a novel chloroplast genome organisation (FEBS 11130) *C.D. Scaramuzzi, H.W. Stokes, R.G. Hiller* 119

Inositol trisphosphate-induced hyperpolarization in rat dorsal root ganglion neurons (FEBS 11131) *Z. Wang, D.L. Ypey, B. Van Duijn* 124

Correlation between carbohydrate-binding specificity and amino acid sequence of carbohydrate-binding regions of *Cytisus*-type anti-H(O) lectins (FEBS 11132) *Y. Konami, K. Yamamoto, T. Osawa, T. Irimura* 129

Photoinduced degradation of the D1 protein in isolated thylakoids and various photosystem II particles after donor-side inactivations: Detection of a C-terminal 16 kDa fragment (FEBS 11133) *R. Barbato, A. Frizzo, G. Friso, F. Rigoni, G.M. Giacometti* 136

IL-2-dependent in vivo and in vitro tyrosine phosphorylation of IL-2 receptor γ chain (FEBS 11134) *H. Asao, S. Kumaki, T. Takeshita, M. Nakamura, K. Sugamura* 141

Purification and primary structure of murine cryptdin-1, a Paneth cell defensin (FEBS 11143) *A.J. Ouellette, S.I. Miller, A.H. Henschen, M.E. Selsted* 146

Natural abundance ^{15}N NMR assignments delineate structural differences between intact and reactive-site hydrolyzed *Cucurbita maxima* trypsin inhibitor III (FEBS 11136) *R. Krishnamoorthi, S. Nemmers, B. Tobias* 149
Increase in protein kinase C activity is associated with human fibroblast growth inhibition (FEBS 11138) *V. Rogalsky, G. Todorov, T. Den, T. Ohnuma* 153
Baculovirus expression of mammalian G protein α subunits (FEBS 11139) *J. Labrecque, M. Caron, K. Torossian, J. Plamondon, M. Dennis* 157
Neopterin as an endogenous antioxidant (FEBS 11145) *S. Kojima, T. Icho, Y. Kajiwara, K. Kubota* 163
Purification of the MglC/E membrane proteins of the binding protein-dependent galactose transport system of *Salmonella typhimurium* (FEBS 11144) *G. Richarme, M. Kohiyama* 167
Heterogeneous expression of four MAP kinase isoforms in human tissues (FEBS 11093) *F.A. Gonzalez, D.L. Raden, M.R. Rigby, R.J. Davis* 170
GTP-binding proteins in luminal and basolateral membranes from pars convoluta and pars recta of rabbit kidney proximal tubule (FEBS 11146) *A.M. Buhl, M.I. Sheikh, J. Steensgaard, H. Røigaard-Petersen, C. Jacobsen* 179
The kinetics of a two-state transition of myosin subfragment 1: A temperature-jump relaxation study (FEBS 11147) *S.-H. Lin, H.C. Cheung* 184
Quantitative analysis of dystrophin in fast- and slow-twitch mammalian skeletal muscle (FEBS 11148) *My-Anh Ho-Kim, P.A. Rogers* 187
Cyclosporin A protects hepatocytes subjected to high Ca^{2+} and oxidative stress (FEBS 11149) *K.M. Broekemeier, L. Carpenter-Deyo, D.J. Reed, D.R. Pfeiffer* 192
Ca^{2+}-dependent translocation of cytosolic proteins to isolated granule subpopulations and plasma membrane from human neutrophils (FEBS 11150) *N. Borregaard, L. Kjeldsen, K. Lollike, H. Sengeløv* 195
Inhibitors of polyamine biosynthesis affect the expression of genes encoding cytoskeletal proteins (FEBS 11151) *B. Kamińska, L. Kaczmarek, B. Grzelakowska-Sztabert* 198
The identification and characterisation of an actin-binding site in α-actinin by mutagenesis (FEBS 11152) *P.A. Kuhlman, L. Hemmings, D.R. Critchley* 201
A protein factor extracted from murine brains confers physiological Ca^{2+} sensitivity to exocytosis in sea urchin eggs (FEBS 11154) *H. Sasaki* 207
Activation of type-1 protein phosphatase by cdc2 kinase (FEBS 11153) *E. Villa-Moruzzi* 211
Membrane-derived oligosaccharides (MDO's) promote closing of an *E. coli* porin channel (FEBS 11141) *A.H. Delcour, J. Adler, C. Kung, B. Martinac* 216
Acidic pH induces fusion of cells infected with baculovirus to form syncytia (FEBS 11156) *E. Leikina, H.O. Onaran, J. Zimmerberg* 221
Identification of DEBS 1, DEBS 2 and DEBS 3, the multienzyme polypeptides of the erythromycin-producing polyketide synthase from *Saccharopolyspora erythraea* (FEBS 11155) *P. Caffrey, D.J. Bevitt, J. Staunton, P.F. Leadlay* 225
Cloning of a human choline kinase cDNA by complementation of the yeast *cki* mutation (FEBS 11157) *K. Hosaka, S. Tanaka, J.-i. Nikawa, S. Yamashita* 229
Volume-activated Cl^- secretion and transepithelial vinblastine secretion mediated by P-glycoprotein are not correlated in cultured human T_{84} intestinal epithelial layers (FEBS 11158) *G.T.A. McEwan, J. Hunter, B.H. Hirst, N.L. Simmons* 233
Multiple Ca^{2+} signaling pathways converge on CaM kinase in PC12 cells (FEBS 11159) *M. MacNicol, H. Schulman* 237
Transcriptional activation of the gene for the large subunit of human m-calpain by 12-*o*-tetradecanoyl-phorbol-13-acetate (FEBS 11161) *A. Hata, S. Ohno, K. Suzuki* 241
Zwitterionic amphiphiles that raise the bilayer to hexagonal phase transition temperature inhibit protein kinase C: The exception that proves the rule (FEBS 11163) *R.M. Epand, A. Stafford, J. Wang, R.F. Epand* 245
Fluorescence studies on the interaction of adenine with ricin A-chain (FEBS 11160) *K. Watanabe, E. Honjo, T. Tsukamoto, G. Funatsu* 249
The *Euglena gracilis rbcS* gene contains introns with unusual borders (FEBS 11162) *L.-H. Tessier, R.L. Chan, M. Keller, J.-H. Weil, P. Imbault.* 252
ATP and GTP as alternative energy sources for vinblastine transport by P-170 in KB-V1 plasma membrane vesicles (FEBS 11165) *I.H. Lelong, R. Padmanabhan, E. Lovelace, I. Pastan, M.M. Gottesman* 256
$p21^{ras}$ contributes to HIV-1 activation in T-cells (FEBS 11164) *C.T. Baldari, G. Macchia, A. Massone, J.L. Telford* 261
A rapid calcium influx during exocytosis in *Paramecium* cells is followed by a rise in cyclic GMP within 1 s (FEBS 11166) *G. Knoll, D. Kerboeuf, H. Plattner* 265
Identification of cholesterol-bound aldehydes in copper-oxidized low density lipoprotein (FEBS 11167) *H. Kamido, A. Kuksis, L. Marai, J.J. Myher* 269
Is bupivacaine a decoupler, a protonophore or a proton-leak-inducer? (FEBS 11168) *P. Schönfeld, F. Sztark, M. Slimani, P. Dabadie, J.-P. Mazat* 273
Yeast ADP/ATP carrier (AAC) proteins exhibit similar enzymatic properties but their deletion produces different phenotypes (FEBS 11169) *T. Drgoň, L. Šabová, G. Gavurniková, J. Kolarov* 277
Effects of antiarrhythmic drugs on phospholipid metabolism in Jurkat T cells: The potassium channel blocker, clofilium, specifically increases phosphatidylserine synthesis (FEBS 11172) *C. Aussel, C. Pelassy* 281
Specific increase of a mitochondrial RNA transcript in chronic ethanol-fed rats (FEBS 11174) *J.A. Enríquez, A. Pérez-Martos, P. Fernández-Silva, M.J. López-Pérez, J. Montoya* 285
A possible role for cysteine residues in the fidelity of DNA synthesis exhibited by the reverse transcriptases of human immunodeficiency viruses type 1 and type 2 (FEBS 11177) *M. Bakhanashvili, A. Hizi* 289

Author Index to Volume 304 295

Contents to Volume 304 299